

Package ‘rsconnect’

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Type Package

Title Deploy Docs, Apps, and APIs to 'Posit Connect', 'shinyapps.io',
and 'RPubs'

Version 1.11.2

Description Programmatic deployment interface for 'RPubs',
'shinyapps.io', and 'Posit Connect'. Supported content types include R
Markdown documents, Shiny applications, Plumber APIs, plots, and
static web content.

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<https://github.com/rstudio/rsconnect>

BugReports <https://github.com/rstudio/rsconnect/issues>

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Author Aron Atkins [aut, cre],
 Toph Allen [aut],
 Hadley Wickham [aut],
 Jonathan McPherson [aut],
 JJ Allaire [aut],
 Posit Software, PBC [cph, fnd]
Maintainer Aron Atkins <aron@posit.co>
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accounts	<i>Account Management Functions</i>
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Description

Functions to enumerate and remove accounts on the local system. Prior to deploying applications you need to register your account on the local system.

Supported servers: All servers

Usage

```
accounts(server = NULL)

accountInfo(name = NULL, server = NULL)

removeAccount(name = NULL, server = NULL)
```

Arguments

server	Name of the server on which the account is registered (optional; see servers())
name	Name of account

Details

You register an account using the [setAccountInfo\(\)](#) function (for ShinyApps) or [connectUser\(\)](#) function (for other servers). You can subsequently remove the account using the `removeAccount` function.

The `accounts` and `accountInfo` functions are provided for viewing previously registered accounts.

Value

`accounts` returns a data frame with the names of all accounts registered on the system and the servers on which they reside. `accountInfo` returns a list with account details.

See Also

Other Account functions: [connectApiUser\(\)](#), [connectCloudClientCredentials\(\)](#), [connectCloudUser\(\)](#), [setAccountInfo\(\)](#)

accountUsage

Show Account Usage

Description

Show account usage

Supported servers: ShinyApps servers

Usage

```
accountUsage(  
  account = NULL,  
  server = NULL,  
  usageType = "hours",  
  from = NULL,  
  until = NULL,  
  interval = NULL  
)
```

Arguments

account, server	Uniquely identify a remote server with either your user account, the server name, or both. If neither are supplied, and there are multiple options, you'll be prompted to pick one. Use accounts() to see the full list of available options.
usageType	Use metric to retrieve (for example: "hours")
from	Date range starting timestamp (Unix timestamp or relative time delta such as "2d" or "3w").
until	Date range ending timestamp (Unix timestamp or relative time delta such as "2d" or "3w").
interval	Summarization interval. Data points at intervals less than this will be grouped. (Number of seconds or relative time delta e.g. "1h").

Note

This function only works for ShinyApps servers.

addAuthorizedUser	<i>Add authorized user to application</i>
-------------------	---

Description

Add authorized user to application

Supported servers: ShinyApps, Posit Connect Cloud

Usage

```
addAuthorizedUser(  
  email,  
  appDir = getwd(),  
  appName = NULL,  
  contentId = NULL,  
  account = NULL,  
  server = NULL,  
  sendEmail = NULL,  
  emailMessage = NULL  
)
```

Arguments

email	Email address of user to add.
appDir	Directory containing application. Defaults to current working directory.
appName	Name of application.
contentId	On Posit Connect Cloud, the content ID to manage, taken from the content URL (https://connect.posit.cloud/{account}/content/{contentId}). When supplied, appDir and appName are ignored and no local deployment record is required. Not supported on shinyapps.io.
account, server	Uniquely identify a remote server with either your user account, the server name, or both. If neither are supplied, and there are multiple options, you'll be prompted to pick one. Use accounts() to see the full list of available options.
sendEmail	Send an email letting the user know the application has been shared with them.
emailMessage	Optional character vector of length 1 containing a custom message to send in email invitation. Defaults to NULL, which will use default invitation message.

Note

This function works for ShinyApps and Posit Connect Cloud. On Posit Connect Cloud, the content's account must be an organization account. The sendEmail argument is ignored on Posit Connect Cloud; PCC always sends an invitation email.

On Posit Connect Cloud, the content is resolved from the local deployment record under appDir, which defaults to the working directory. Pass appDir to point at the project directory that contains

the rsconnect/ deployment record. appName selects among multiple records in the same directory. Alternatively, pass contentId to target the content directly, without a local deployment record.

See Also

[removeAuthorizedUser\(\)](#) and [showUsers\(\)](#)

addLinter

Add a Linter

Description

Add a linter, to be used in subsequent calls to [lint\(\)](#).

Supported servers: All servers

Add a linter, to be used in subsequent calls to [lint\(\)](#).

Usage

```
addLinter(name, linter)
```

```
addLinter(name, linter)
```

Arguments

name	The name of the linter, as a string.
linter	A linter() .

Examples

```
addLinter("no.capitals", linter(

  ## Identify lines containing capital letters -- either by name or by index
  apply = function(content, ...) {
    grep("[A-Z]", content)
  },

  ## Only use this linter on R files (paths ending with .r or .R)
  takes = function(paths) {
    grep("[rR]$", paths)
  },

  # Use the default message constructor
  message = function(content, lines, ...) {
    makeLinterMessage("Capital letters found on the following lines", content, lines)
  },

  # Give a suggested prescription
  suggest = "Do not use capital letters in these documents."
```

```

))
addLinter("no.capitals", linter(

  ## Identify lines containing capital letters -- either by name or by index
  apply = function(content, ...) {
    grep("[A-Z]", content)
  },

  ## Only use this linter on R files (paths ending with .r or .R)
  takes = function(paths) {
    grep("[rR]$", paths)
  },

  # Use the default message constructor
  message = function(content, lines, ...) {
    makeLinterMessage("Capital letters found on the following lines", content, lines)
  },

  # Give a suggested prescription
  suggest = "Do not use capital letters in these documents."
))

```

addServer

Server management

Description

These functions manage the list of known servers:

- `addServer()` registers a Posit connect server. Once it has been registered, you can connect to an account on the server using `connectUser()`.
- `removeServer()` removes a server from the registry.
- `addServerCertificate()` adds a certificate to a server.

Supported servers: Posit Connect servers

Usage

```

addServer(
  url,
  name = NULL,
  certificate = NULL,
  validate = TRUE,
  snowflakeConnectionName = NULL,
  quiet = FALSE
)

removeServer(name = NULL)

addServerCertificate(name, certificate, quiet = FALSE)

```

Arguments

<code>url</code>	URL for the server. Can be a bare hostname like <code>connect.mycompany.com</code> or a url like <code>http://posit.mycompany.com/connect</code> .
<code>name</code>	Server name. If omitted, the server hostname is used.
<code>certificate</code>	Optional. Either a path to certificate file or a character vector containing the certificate's contents.
<code>validate</code>	Validate that <code>url</code> actually points to a Posit Connect server?
<code>snowflakeConnectionName</code>	Name for the Snowflake connection in <code>connections.toml</code> to use for authentication or <code>NULL</code> to use the default (when applicable).
<code>quiet</code>	Suppress output and prompts where possible.

Examples

```
## Not run:
# register a local server
addServer("http://myrsconnect/", "myserver")

# list servers
servers(local = TRUE)

# connect to an account on the server
connectUser(server = "myserver")

## End(Not run)
```

appDependencies

Detect application dependencies

Description

`appDependencies()` recursively detects all R package dependencies for an application by parsing all `.R` and `.Rmd` files and looking for calls to `library()`, `require()`, `requireNamespace()`, `::`, and so on. It then adds implicit dependencies (i.e. an `.Rmd` requires `rmarkdown`) and adds all recursive dependencies to create a complete manifest of packages need to be installed to run the app.

Supported servers: All servers

Usage

```
appDependencies(
  appDir = getwd(),
  appFiles = NULL,
  appFileManifest = NULL,
  appMode = NULL,
  dependencyResolution = c("strict", "library")
)
```

Arguments

appDir	A directory containing an application (e.g. a Shiny app or plumber API). Defaults to the current directory.
appFiles, appFileManifest	Use appFiles to specify a character vector of files to bundle in the app or appFileManifest to provide a path to a file containing a list of such files. If neither are supplied, will bundle all files in appDir, apart from standard exclusions and files listed in a .rscignore file. See listDeploymentFiles() for more details.
appMode	Optional; the type of content being deployed. Provide this option when the inferred type of content is incorrect. This can happen, for example, when static HTML content includes a downloadable Shiny application app.R. Accepted values include "shiny", "api", "rmd-static", "rmd-shiny", "quarto-static", "quarto-shiny", "nodejs", and "static". The Posit Connect API Reference contains a full set of available values. Not all servers support all types of content.
dependencyResolution	Controls how R package dependencies are resolved. Must be one of "strict" or "library". When "strict", the <code>renv.lock</code> file is used if present and must match the local library. When "library", the lockfile is ignored and dependencies are resolved from the available local libraries instead. This is useful when the lockfile is out of sync with the local library and cannot be updated. Note that the deployed content will reflect the local library, not the lockfile. Defaults to "strict".

Value

A data frame with one row for each dependency (direct, indirect, and inferred), and 4 columns:

- Package: package name.
- Version: local version.
- Source: a short string describing the source of the package install, as described above.
- Repository: for CRAN and CRAN-like repositories, the URL to the repository. This will be ignored by the server if it has been configured with its own repository name -> repository URL mapping.

Dependency discovery

rsconnect uses one of three mechanisms to find which packages your application uses:

1. If `renv.lock` is present, it will use the versions and sources defined in that file. If you're using the lockfile for some other purpose and don't want it to affect deployment, add `renv.lock` to `.rscignore`.
2. Otherwise, rsconnect will call `renv::snapshot()` to find all packages used by your code. If you'd instead prefer to only use the packages declared in a DESCRIPTION file, run `renv::settings$snapshot.type("e")` to activate renv's "explicit" mode.
3. Dependency resolution using renv is a new feature in rsconnect 1.0.0, and while we have done our best to test it, it still might fail for your app. If this happens, please [file an issue](#) then set `options(rsconnect.packrat = TRUE)` to revert to the old dependency discovery mechanism.

Remote installation

When deployed, the app must first install all of these packages, and rsconnect ensures the versions used on the server will match the versions you used locally. It knows how to install packages from the following sources:

- CRAN and Bioconductor (Source: CRAN or Source: Bioconductor). The remote server will ignore the specific CRAN or Bioconductor mirror that you use locally, always using the CRAN/BioC mirror that has been configured on the server.
- Other CRAN like and CRAN-like repositories. These packages will have a Source determined by the value of `getOption("repos")`. For example, if you've set the following options:

```
options(
  repos = c(
    CRAN = "https://cran.rstudio.com/",
    CORPORATE = "https://corporate-packages.development.company.com"
  )
)
```

Then packages installed from your corporate package repository will have source CORPORATE. Posit Connect **can be configured** to override their repository url so that (e.g.) you can use different packages versions on staging and production servers.

- Packages installed from GitHub, GitLab, or Bitbucket, have Source github, gitlab, and bitbucket respectively. When deployed, the bundle contains the additional metadata needed to precisely recreate the installed version.

It's not possible to recreate the packages that you have built and installed from a directory on your local computer. This will have Source: NA and will cause the deployment to error. To resolve this issue, you'll need to install from one of the known sources described above.

Suggested packages

The Suggests field is not included when determining recursive dependencies, so it's possible that not every package required to run your application will be detected.

For example, ggplot2's `geom_hex()` requires the hexbin package to be installed, but it is only suggested by ggplot2. So if your app uses `geom_hex()` it will fail, reporting that the hexbin package is not installed.

You can overcome this problem with (e.g.) `requireNamespace(hexbin)`. This will tell rsconnect that your app needs the hexbin package, without otherwise affecting your code.

See Also

[rsconnectPackages](#)(Using Packages with rsconnect)

Examples

```
## Not run:

# dependencies for the app in the current working dir
appDependencies()
```

```
# dependencies for an app in another directory
appDependencies("~/projects/shiny/app1")

## End(Not run)
```

applications	<i>List Deployed Applications</i>
--------------	-----------------------------------

Description

List all applications currently deployed for a given account.

Supported servers: All servers

Usage

```
applications(account = NULL, server = NULL)
```

Arguments

`account, server` Uniquely identify a remote server with either your user account, the server name, or both. If neither are supplied, and there are multiple options, you'll be prompted to pick one.
Use [accounts\(\)](#) to see the full list of available options.

Value

Returns a data frame with the following columns:

<code>id</code>	Application unique id
<code>name</code>	Name of application
<code>title</code>	Application title
<code>url</code>	URL where application can be accessed
<code>status</code>	Current status of application. Valid values are pending, deploying, running, terminating, and terminated
<code>size</code>	Instance size (small, medium, large, etc.) (on ShinyApps.io)
<code>instances</code>	Number of instances (on ShinyApps.io)
<code>config_url</code>	URL where application can be configured

Note

To register an account you call the [setAccountInfo\(\)](#) function.

See Also

[deployApp\(\)](#), [terminateApp\(\)](#)

Other Deployment functions: [deployAPI\(\)](#), [deployApp\(\)](#), [deployDoc\(\)](#), [deploySite\(\)](#), [deployTFModel\(\)](#)

Examples

```
## Not run:

# list all applications for the default account
applications()

# list all applications for a specific account
applications("myaccount")

# view the list of applications in the data viewer
View(applications())

## End(Not run)
```

configureApp

*Configure an Application***Description**

Configure an application running on a remote server.

Supported servers: ShinyApps servers

Usage

```
configureApp(
  appName,
  appDir = getwd(),
  account = NULL,
  server = NULL,
  redeploy = TRUE,
  size = NULL,
  instances = NULL,
  logLevel = c("normal", "quiet", "verbose")
)
```

Arguments

appName	Name of application to configure
appDir	Directory containing application. Defaults to current working directory.
account, server	Uniquely identify a remote server with either your user account, the server name, or both. If neither are supplied, and there are multiple options, you'll be prompted to pick one. Use accounts() to see the full list of available options.
redeploy	Re-deploy application after modifying its configuration.
size	Configure application instance size
instances	Configure number of application instances

`logLevel` One of "quiet", "normal" or "verbose"; indicates how much logging to the console is to be performed. At "quiet" reports no information; at "verbose", a full diagnostic log is captured.

Note

This function works only for ShinyApps servers.

See Also

[applications\(\)](#), [deployApp\(\)](#)

Examples

```
## Not run:

# set instance size for an application
configureApp("myapp", size="xlarge")

## End(Not run)
```

connectApiUser	<i>Register account on Posit Connect</i>
----------------	--

Description

`connectUser()` and `connectApiUser()` connect your Posit Connect account to the `rsconnect` package so that it can deploy and manage applications on your behalf.

`connectUser()` is the easiest place to start because it allows you to authenticate in-browser to your Posit Connect server. `connectApiUser()` is appropriate for non-interactive settings; you'll need to copy-and-paste the API key from your account settings.

Supported servers: Posit Connect servers

Usage

```
connectApiUser(account = NULL, server = NULL, apiKey, quiet = FALSE)
```

```
connectUser(
  account = NULL,
  server = NULL,
  quiet = FALSE,
  launch.browser = getOption("rsconnect.launch.browser", interactive())
)
```

Arguments

account	A name for the account to connect.
server	The server to connect to.
apiKey	The API key used to authenticate the user
quiet	Whether or not to show messages and prompts while connecting the account.
launch.browser	If true, the system's default web browser will be launched automatically after the app is started. Defaults to TRUE in interactive sessions only. If a function is passed, it will be called after the app is started, with the app URL as a parameter.

See Also

Other Account functions: [accounts\(\)](#), [connectCloudClientCredentials\(\)](#), [connectCloudUser\(\)](#), [setAccountInfo\(\)](#)

connectCloudClientCredentials

Register a Posit Connect Cloud account using OAuth client credentials

Description

connectCloudClientCredentials() registers a Posit Connect Cloud account using an OAuth 2.0 client_credentials grant provided by the Posit Cloud auth service (<https://login.posit.cloud/identity/credentials>). Use this function to authenticate in non-interactive contexts.

Supported servers: Posit Connect Cloud servers

Usage

```
connectCloudClientCredentials(
  clientId,
  clientSecret,
  accountName,
  name = NULL,
  quiet = FALSE
)
```

Arguments

clientId	The OAuth client ID issued for a Posit Connect Cloud service account.
clientSecret	The OAuth client secret paired with clientId.
accountName	The Posit Connect Cloud account name to publish to. The credentials must grant publish permission on this account.
name	The local name to record the account under. Defaults to accountName.
quiet	Whether or not to show messages while connecting the account.

See Also

Other Account functions: [accounts\(\)](#), [connectApiUser\(\)](#), [connectCloudUser\(\)](#), [setAccountInfo\(\)](#)

connectCloudUser	<i>Register account on Posit Connect Cloud</i>
------------------	--

Description

`connectCloudUser()` connects your Posit Connect Cloud account to the `rsconnect` package so that it can deploy and manage applications on your behalf. It will open a browser window to authenticate, then prompt you to create an account or select an account to use if you have multiple.

Supported servers: Posit Connect Cloud servers

Usage

```
connectCloudUser(launch.browser = TRUE)
```

Arguments

`launch.browser` If true, the system's default web browser will be launched automatically after the app is started. Defaults to TRUE in interactive sessions only. If a function is passed, it will be called after the app is started, with the app URL as a parameter.

See Also

Other Account functions: [accounts\(\)](#), [connectApiUser\(\)](#), [connectCloudClientCredentials\(\)](#), [setAccountInfo\(\)](#)

connectSPCSUser	<i>Register account on Posit Connect in Snowpark Container Services</i>
-----------------	---

Description

`connectSPCSUser()` connects your Posit Connect account to the `rsconnect` package so it can deploy and manage applications on your behalf. Configure a `connections.toml` file in the appropriate location.

SPCS deployments require both Snowflake authentication (via the connection name) and a Posit Connect API key. The Snowflake token provides proxied authentication to reach the Connect server, while the API key identifies the user to Connect itself.

If `snowflakeConnectionName` is not provided, **rsconnect** will attempt to use the default Snowflake connection from the `connections.toml` file, provided that the account matches the Connect server's URL.

Supported servers: Posit Connect servers

Usage

```
connectSPCSUser(  
  account = NULL,  
  server = NULL,  
  apiKey,  
  snowflakeConnectionName = NULL,  
  quiet = FALSE  
)
```

Arguments

account	A name for the account to connect.
server	The server to connect to.
apiKey	The API key used to authenticate the user
snowflakeConnectionName	Name of the Snowflake connection in connections.toml to use for authentication or NULL to use the default (when applicable).
quiet	Whether or not to show messages and prompts while connecting the account.

deleteContent	Delete content
---------------	----------------

Description

Permanently delete content from Posit Connect Cloud. The deletion cannot be undone.
Supported servers: Posit Connect Cloud

Usage

```
deleteContent(  
  appDir = getwd(),  
  appName = NULL,  
  contentId = NULL,  
  account = NULL,  
  server = NULL,  
  force = FALSE  
)
```

Arguments

appDir	Directory containing the content’s deployment record. Defaults to the current working directory.
appName	Name of the deployment record to use when appDir has more than one.
contentId	The content ID to delete, taken from the content URL (https://connect.posit.cloud/{account}/content/{contentId}). When supplied, appDir and appName are ignored and no local deployment record is required.

account, server	Uniquely identify a remote server with either your user account, the server name, or both. If neither are supplied, and there are multiple options, you'll be prompted to pick one.
force	If FALSE (the default), ask for confirmation before deleting. Set to TRUE to delete without asking, which is required in non-interactive sessions.

Note

This function only works for Posit Connect Cloud. When the content is found through a local deployment record, that record is also removed.

See Also

[deployApp\(\)](#), [applications\(\)](#), and [forgetDeployment\(\)](#)

Examples

```
## Not run:

# delete the content deployed from the current directory
deleteContent()

# delete content by id, without asking for confirmation
deleteContent(contentId = "0192f1a2-...", force = TRUE)

## End(Not run)
```

 deployAPI

Deploy a Plumber API

Description

Deploys an application consisting of plumber API routes. The given directory must contain a script returning a `plumb` object or a plumber API definition.

Supported servers: Posit Connect and ShinyApps servers

Usage

```
deployAPI(api, ...)
```

Arguments

api	Path to the API project directory. Must contain either <code>entrypoint.R</code> or <code>plumber.R</code> (for plumber APIs) or <code>_server.yml</code> (for plumber2 APIs)
...	Additional arguments to deployApp() .

Details

Deploy a plumber API definition by either supplying a directory containing plumber.R (an API definition) or entypoint.R that returns a plumb object created by `plumber::plumb()`. See the plumber documentation for more information. Alternatively, deploy a plumber2 API by supplying a directory containing `_server.yml`.

See Also

Other Deployment functions: [applications\(\)](#), [deployApp\(\)](#), [deployDoc\(\)](#), [deploySite\(\)](#), [deployTFModel\(\)](#)

deployApp

Deploy an Application

Description

Deploy a [shiny](#) application, an [RMarkdown](#) document, a plumber API, or HTML content to a server.

Supported servers: All servers

Usage

```
deployApp(
  appDir = getwd(),
  appFiles = NULL,
  appFileManifest = NULL,
  manifestPath = NULL,
  appPrimaryDoc = NULL,
  appSourceDoc = NULL,
  appName = NULL,
  appTitle = NULL,
  envVars = NULL,
  appId = NULL,
  appMode = NULL,
  contentCategory = NULL,
  account = NULL,
  server = NULL,
  upload = TRUE,
  recordDir = NULL,
  launch.browser = getOption("rsconnect.launch.browser", is_interactive()),
  on.failure = NULL,
  logLevel = c("normal", "quiet", "verbose"),
  lint = TRUE,
  metadata = list(),
  forceUpdate = NULL,
  python = NULL,
  forceGeneratePythonEnvironment = FALSE,
  quarto = NA,
```

```

    appVisibility = NULL,
    image = NULL,
    envManagement = NULL,
    envManagementR = NULL,
    envManagementPy = NULL,
    envManagementNodejs = NULL,
    packageRepositoryResolutionR = NULL,
    dependencyResolution = c("strict", "library")
)

```

Arguments

appDir	A directory containing an application (e.g. a Shiny app or plumber API). Defaults to the current directory.
appFiles, appFileManifest	Use appFiles to specify a character vector of files to bundle in the app or appFileManifest to provide a path to a file containing a list of such files. If neither are supplied, will bundle all files in appDir, apart from standard exclusions and files listed in a .rscignore file. See listDeploymentFiles() for more details.
manifestPath	Path to an existing manifest.json file to use for deployment. When provided, deployApp() will use the file list and metadata from this manifest instead of generating a new one. This allows you to pre-generate a manifest with writeManifest() , customize it, check it into version control, and deploy from that exact manifest. If NULL (the default), a new manifest will be generated. When using manifestPath, appFiles, appFileManifest, appMode, appPrimaryDoc, contentCategory, envManagement(R Py), and image are ignored since their values are taken from the manifest.
appPrimaryDoc	If the application contains more than one document, this parameter indicates the primary one, as a path relative to appDir. Can be NULL, in which case the primary document is inferred from the contents being deployed.
appSourceDoc	[Deprecated] Please use recordDir instead.
appName	Application name, a string consisting of letters, numbers, _ and -. The application name is used to identify applications on a server, so must be unique. If not specified, the name is automatically derived on the first deployment from appDir for applications and websites, and from appPrimaryDoc for documents. On subsequent deploys, the previously stored value is used.
appTitle	Free-form descriptive title of application. Optional; if supplied, will often be displayed in favor of the name. If omitted, on second and subsequent deploys, the title will be unchanged.
envVars	A character vector giving the names of environment variables whose values should be synchronised with the server (currently supported by Connect only). The values of the environment variables are sent over an encrypted connection and are not stored in the bundle, making this a safe way to send private data to Connect. The values of sensitive environment variables should be set in the current session via an .Renv file or with the help of a credential store like keyring . Avoid

using `Sys.setenv()` for sensitive values, as that results in the value appearing in your `.Rhistory`.

The names (not values) are stored in the deployment record so that future deployments will automatically update their values. Other environment variables on the server will not be affected. This means that removing an environment variable from `envVars` will leave it unchanged on the server. To remove it, either delete it using the Connect UI, or temporarily unset it (with `Sys.unsetenv()` or similar) then re-deploy.

Environment variables are set prior to deployment so that your code can use them and the first deployment can still succeed. Note that means that if the deployment fails, the values will still be updated.

<code>appId</code>	Use this to deploy to an exact known application, ignoring all existing deployment records and <code>appName</code>. You can use this to update an existing application that is missing a deployment record. If you're re-deploying an application that you created it's generally easier to use <code>appName</code>; <code>appId</code> is best reserved for re-deploying apps created by someone else. You can find the <code>appId</code> in the following places: • For Posit Connect, it's <code>guid</code> from the info tab on the content page. • For Posit Connect Cloud, it can be found in the content admin page's URL <code>https://connect.posit.cloud/{accountName}/content/{appId}</code>. • On <code>shinyapps.io</code>, it's the <code>id</code> listed on the applications page.
<code>appMode</code>	Optional; the type of content being deployed. Provide this option when the inferred type of content is incorrect. This can happen, for example, when static HTML content includes a downloadable Shiny application <code>app.R</code> . Accepted values include <code>"shiny"</code> , <code>"api"</code> , <code>"rmd-static"</code> , <code>"rmd-shiny"</code> , <code>"quarto-static"</code> , <code>"quarto-shiny"</code> , <code>"nodejs"</code> , and <code>"static"</code> . The Posit Connect API Reference contains a full set of available values. Not all servers support all types of content.
<code>contentCategory</code>	Optional; classifies the kind of content being deployed (e.g. <code>"plot"</code> or <code>"site"</code>).
<code>account, server</code>	Uniquely identify a remote server with either your user account, the server name, or both. If neither are supplied, and there are multiple options, you'll be prompted to pick one. Use <code>accounts()</code> to see the full list of available options.
<code>upload</code>	If <code>TRUE</code> (the default) then the application is uploaded from the local system prior to deployment. If <code>FALSE</code> then it is re-deployed using the last version that was uploaded. <code>FALSE</code> is only supported on Posit Connect Cloud and <code>shinyapps.io</code> ; <code>TRUE</code> is required on Posit Connect.
<code>recordDir</code>	Directory where deployment record is written. The default, <code>NULL</code> , uses <code>appDir</code> , since this is usually where you want the deployment data to be stored. This argument is typically only needed when deploying a directory of static files since you want to store the record with the code that generated those files, not the files themselves.
<code>launch.browser</code>	If <code>true</code> , the system's default web browser will be launched automatically after the app is started. Defaults to <code>TRUE</code> in interactive sessions only. If a function is passed, it will be called after the app is started, with the app URL as a parameter.

on.failure	Function to be called if the deployment fails. If a deployment log URL is available, it's passed as a parameter.
logLevel	One of "quiet", "normal" or "verbose"; indicates how much logging to the console is to be performed. At "quiet" reports no information; at "verbose", a full diagnostic log is captured.
lint	Lint the project before initiating deployment, to identify potentially problematic code?
metadata	Additional metadata fields to save with the deployment record. These fields will be returned on subsequent calls to <code>deployments()</code> . Multi-value fields are recorded as comma-separated values and returned in that form. Custom value serialization is the responsibility of the caller.
forceUpdate	What should happen if there's no deployment record for the app, but there's an app with the same name on the server? If TRUE, will always update the previously-deployed app. If FALSE, will ask the user what to do, or fail if not in an interactive context. Defaults to TRUE when called automatically by the IDE, and FALSE otherwise. You can override the default by setting option <code>rsconnect.force.update.apps</code> .
python	Full path to a python binary for use by reticulate. Required if reticulate is a dependency of the app being deployed. If <code>python = NULL</code> , and <code>RETICULATE_PYTHON</code> or <code>RETICULATE_PYTHON_FALLBACK</code> is set in the environment, its value will be used. The specified python binary will be invoked to determine its version and to list the python packages installed in the environment.
forceGeneratePythonEnvironment	Optional. If an existing <code>requirements.txt</code> file is found, it will be overwritten when this argument is TRUE.
quarto	Should the deployed content be built by quarto? (TRUE, FALSE, or NA). The default, NA, will use quarto if there are <code>.qmd</code> files in the bundle, or if there is a <code>_quarto.yml</code> and <code>.Rmd</code> files. (This option is ignored and quarto will always be used if the metadata contains <code>quarto_version</code> and <code>quarto_engines</code> fields.)
appVisibility	The visibility of the deployment. When NULL, no change to visibility is made. Ignored by Posit Connect. On shinyapps.io, one of "private" or "public". On Posit Connect Cloud, one of: • "private": only invited users can view or edit. • "public": anyone can view; only invited users can edit. • "view_team_edit_private": account members can view; only invited users can edit. • "view_team_edit_team": account members can view and edit. • "view_public_edit_team": anyone can view; account members can edit. "private" and the "view_team_*" values need a Connect Cloud plan that includes private content. New Connect Cloud content deployed with NULL is private when the plan allows it, and public otherwise.

image	Optional. The name of the image to use when building and executing this content. If none is provided, Posit Connect will attempt to choose an image based on the content requirements. You can override the default by setting the environment variable <code>RSCONNECT_IMAGE</code> .
envManagement	Optional. Should Posit Connect install packages for this content? (TRUE, FALSE, or NULL). The default, NULL, will not write any values to the bundle manifest, and Connect will fall back to the application default environment management strategy, or the server default if no application default is defined. (This option is a shorthand flag which overwrites the values of envManagementR, envManagementPy, and envManagementNodejs.)
envManagementR	Optional. Should Posit Connect install R packages for this content? (TRUE, FALSE, or NULL). The default, NULL, will not write any values to the bundle manifest, and Connect will fall back to the application default R environment management strategy, or the server default if no application default is defined. (This option is ignored when envManagement is non-NULL.)
envManagementPy	Optional. Should Posit Connect install Python packages for this content? (TRUE, FALSE, or NULL). The default, NULL, will not write any values to the bundle manifest, and Connect will fall back to the application default Python environment management strategy, or the server default if no application default is defined. (This option is ignored when envManagement is non-NULL.)
envManagementNodejs	Optional. Should Posit Connect install Node.js packages for this content? (TRUE, FALSE, or NULL). The default, NULL, will not write any values to the bundle manifest, and Connect will fall back to the application default Node.js environment management strategy, or the server default if no application default is defined. (This option is ignored when envManagement is non-NULL.)
packageRepositoryResolutionR	Optional. Specifies the package repository resolution strategy for R packages. Must be one of "lax", "strict", "legacy", "lockfile", or NULL. The default, NULL, will not write any values to the bundle manifest and Connect will fall back to the server's package repository resolution strategy.
dependencyResolution	Controls how R package dependencies are resolved. Must be one of "strict" or "library". When "strict", the <code>renv.lock</code> file is used if present and must match the local library. When "library", the lockfile is ignored and dependencies are resolved from the available local libraries instead. This is useful when the lockfile is out of sync with the local library and cannot be updated. Note that the deployed content will reflect the local library, not the lockfile. Defaults to "strict".

Details

Deployment records:

When deploying an app, `deployApp()` will save a deployment record that makes it easy to update the app on server from your local source code. This generally means that you need to only need to

supply important arguments (e.g. `appName`, `appTitle`, `server/account`) on the first deploy, and `rsconnect` will reuse the same settings on subsequent deploys.

The metadata needed to make this work is stored in `{appDir}/rsconnect/`. You should generally check these files into version control to ensure that future you and other collaborators will publish to the same location.

If you have lost this directory, all is not lost, as `deployApp()` will attempt to rediscover existing deployments. This is easiest if you are updating an app that you created, as you can just supply the `appName` (and `server/account` if you have multiple accounts) and `deployApp()` will find the existing application account. If you need to update an app that was created by someone else (that you have write permission) for, you'll instead need to supply the `appId`.

See Also

`applications()`, `terminateApp()`, and `restartApp()`

Other Deployment functions: `applications()`, `deployAPI()`, `deployDoc()`, `deploySite()`, `deployTFModel()`

Examples

```
## Not run:

# deploy the application in the current working dir
deployApp()

# deploy an application in another directory
deployApp("~/projects/shiny/app1")

# deploy using an alternative application name and title
deployApp("~/projects/shiny/app1", appName = "myapp",
           appTitle = "My Application")

# deploy specifying an explicit account name, then
# redeploy with no arguments (will automatically use
# the previously specified account)
deployApp(account = "jsmith")
deployApp()

# deploy but don't launch a browser when completed
deployApp(launch.browser = FALSE)

# deploy a Quarto website, using the quarto package to
# find the Quarto binary
deployApp("~/projects/quarto/site1")

# deploy application with environment variables
# (e.g., `SECRET_PASSWORD=XYZ` is set via an ~/.Renviron file)
rsconnect::deployApp(envVars = c("SECRET_PASSWORD"))

# deploy from a pre-generated manifest
writeManifest("~/projects/shiny/app1")
# ...optionally customize manifest.json here...
deployApp("~/projects/shiny/app1", manifestPath = "manifest.json")
```

```
## End(Not run)
```

deployDoc	<i>Deploy a single document</i>
-----------	---------------------------------

Description

Deploys a single R Markdown, Quarto document, or other file (e.g. .html or .pdf).

When deploying an .Rmd, .Qmd, or .html, `deployDoc()` will attempt to automatically discover dependencies using `rmarkdown::find_external_resources()`, and include an .Rprofile if present. If you find that the document is missing dependencies, either specify the dependencies explicitly in the document (see `rmarkdown::find_external_resources()` for details), or call `deployApp()` directly and specify your own file list in `appFiles`.

Supported servers: All servers

Usage

```
deployDoc(doc, ..., logLevel = c("normal", "quiet", "verbose"))
```

Arguments

<code>doc</code>	Path to the document to deploy.
<code>...</code>	Additional arguments to <code>deployApp()</code> . Do not supply <code>appDir</code> , <code>appFiles</code> , or <code>appPrimaryDoc</code> ; these three parameters are automatically generated by <code>deployDoc</code> from the document.
<code>logLevel</code>	One of "quiet", "normal" or "verbose"; indicates how much logging to the console is to be performed. At "quiet" reports no information; at "verbose", a full diagnostic log is captured.

See Also

Other Deployment functions: `applications()`, `deployAPI()`, `deployApp()`, `deploySite()`, `deployTFModel()`

Examples

```
## Not run:
deployDoc("my-report.Rmd")
deployDoc("static-file.html")

## End(Not run)
```

deployments	<i>List Application Deployments</i>
-------------	-------------------------------------

Description

List deployment records for a given application.
Supported servers: All servers

Usage

```
deployments(  
  appPath = ".",  
  nameFilter = NULL,  
  accountFilter = NULL,  
  serverFilter = NULL,  
  excludeOrphaned = TRUE  
)
```

Arguments

appPath	The path to the content that was deployed, either a directory or an individual document.
nameFilter	Return only deployments matching the given name (optional)
accountFilter	Return only deployments matching the given account (optional)
serverFilter	Return only deployments matching the given server (optional)
excludeOrphaned	If TRUE (the default), return only deployments made by a currently registered account. Deployments made from accounts that are no longer registered (via e.g. removeAccount()) will not be returned.

Value

Returns a data frame with at least the following columns:

name	Name of deployed application
account	Account owning deployed application
bundleId	Identifier of deployed application's bundle
url	URL of deployed application
deploymentFile	Name of configuration file

If additional metadata has been saved with the deployment record using the metadata argument to [deployApp\(\)](#), the frame will include additional columns.

See Also

`applications()` to get a list of deployments from the server, and `deployApp()` to create a new deployment.

Examples

```
## Not run:

# Return all deployments of the ~/r/myapp directory made with the 'abc'
# account
deployments("~/r/myapp", accountFilter="abc")

## End(Not run)
```

deploySite	<i>Deploy a website</i>
------------	-------------------------

Description

Deploy an R Markdown or quarto website to a server.

Supported servers: Posit Connect, Posit Connect Cloud and ShinyApps servers

Usage

```
deploySite(
  siteDir = getwd(),
  siteName = NULL,
  siteTitle = NULL,
  account = NULL,
  server = NULL,
  render = c("none", "local", "server"),
  launch.browser = getOption("rsconnect.launch.browser", interactive()),
  logLevel = c("normal", "quiet", "verbose"),
  lint = FALSE,
  metadata = list(),
  python = NULL,
  recordDir = NULL,
  ...
)
```

Arguments

<code>siteDir</code>	Directory containing website. Defaults to current directory.
<code>siteName</code>	Name for the site (names must be unique within an account). Defaults to the base name of the specified <code>siteDir</code> or to the name provided by a custom site generation function.

siteTitle	Title for the site. For quarto sites only, if not supplied uses the title recorded in <code>_quarto.yml</code> .
account, server	Uniquely identify a remote server with either your user account, the server name, or both. If neither are supplied, and there are multiple options, you'll be prompted to pick one. Use accounts() to see the full list of available options.
render	Rendering behavior for site: • "none" uploads a static version of the current contents of the site directory. • "local" renders the site locally then uploads it. • "server" uploads the source of the site to render on the server. Note that for "none" and "local" source files (e.g. <code>.R</code>, <code>.Rmd</code> and <code>.md</code>) will not be uploaded to the server.
launch.browser	If true, the system's default web browser will be launched automatically after the app is started. Defaults to TRUE in interactive sessions only. If a function is passed, it will be called after the app is started, with the app URL as a parameter.
logLevel	One of "quiet", "normal" or "verbose"; indicates how much logging to the console is to be performed. At "quiet" reports no information; at "verbose", a full diagnostic log is captured.
lint	Lint the project before initiating deployment, to identify potentially problematic code?
metadata	Additional metadata fields to save with the deployment record. These fields will be returned on subsequent calls to deployments() . Multi-value fields are recorded as comma-separated values and returned in that form. Custom value serialization is the responsibility of the caller.
python	Full path to a python binary for use by reticulate. Required if reticulate is a dependency of the app being deployed. If <code>python = NULL</code> , and <code>RETICULATE_PYTHON</code> or <code>RETICULATE_PYTHON_FALLBACK</code> is set in the environment, its value will be used. The specified python binary will be invoked to determine its version and to list the python packages installed in the environment.
recordDir	The default, NULL, uses <code>siteDir</code> .
...	Additional arguments to deployApp() . Do not supply <code>appDir</code> or <code>appFiles</code> ; these parameters are automatically generated by <code>deploySite()</code> .

See Also

Other Deployment functions: [applications\(\)](#), [deployAPI\(\)](#), [deployApp\(\)](#), [deployDoc\(\)](#), [deployTFModel\(\)](#)

deployTFModel	<i>Deploy a TensorFlow saved model</i>
---------------	--

Description

Deploys a directory containing a TensorFlow saved model.

Supported servers: Posit Connect and ShinyApps servers

Usage

```
deployTFModel(...)
```

Arguments

... Additional arguments to [deployApp\(\)](#).

See Also

Other Deployment functions: [applications\(\)](#), [deployAPI\(\)](#), [deployApp\(\)](#), [deployDoc\(\)](#), [deploySite\(\)](#)

forgetDeployment	<i>Forget Application Deployment</i>
------------------	--------------------------------------

Description

Forgets about an application deployment. This is useful if the application has been deleted on the server, or the local deployment information needs to be reset.

Supported servers: All servers

Usage

```
forgetDeployment(  
  appPath = getwd(),  
  name = NULL,  
  account = NULL,  
  server = NULL,  
  dryRun = FALSE,  
  force = !interactive()  
)
```

Arguments

appPath	The path to the content that was deployed, either a directory or an individual document.
name	The name of the content that was deployed (optional)
account	The name of the account to which the content was deployed (optional)
server	The name of the server to which the content was deployed (optional)
dryRun	Set to TRUE to preview the files/directories to be removed instead of actually removing them. Defaults to FALSE.
force	Set to TRUE to remove files and directories without prompting. Defaults to FALSE in interactive sessions.

Details

This method removes from disk the file containing deployment metadata. If "name", "account", and "server" are all NULL, then all of the deployments for the application are forgotten; otherwise, only the specified deployment is forgotten.

Value

NULL, invisibly.

lint	<i>Lint a Project</i>
------	-----------------------

Description

Takes the set of active linters (see [addLinter\(\)](#)), and applies them to all files within a project.
Supported servers: All servers

Usage

```
lint(project, files = NULL, appPrimaryDoc = NULL)
```

Arguments

project	Path to a project directory.
files	Specific files to lint. Can be NULL, in which case all the files in the directory will be linted.
appPrimaryDoc	The primary file in the project directory. Can be NULL, in which case it's inferred (if possible) from the directory contents.

linter

Create a Linter

Description

Generate a linter, which can identify errors or problematic regions in a project.

Supported servers: All servers

Generate a linter, which can identify errors or problematic regions in a project.

Usage

```
linter(apply, takes, message, suggestion)
```

```
linter(apply, takes, message, suggestion)
```

Arguments

apply	Function that, given the content of a file, returns the indices at which problems were found.
takes	Function that, given a set of paths, returns the subset of paths that this linter uses.
message	Function that, given content and lines, returns an informative message for the user. Typically generated with <code>makeLinterMessage()</code> .
suggestion	String giving a prescribed fix for the linted problem.

Examples

```
addLinter("no.capitals", linter(

  ## Identify lines containing capital letters -- either by name or by index
  apply = function(content, ...) {
    grep("[A-Z]", content)
  },

  ## Only use this linter on R files (paths ending with .r or .R)
  takes = function(paths) {
    grep("[rR]$", paths)
  },

  # Use the default message constructor
  message = function(content, lines, ...) {
    makeLinterMessage("Capital letters found on the following lines", content, lines)
  },

  # Give a suggested prescription
  suggest = "Do not use capital letters in these documents."
))
```

```

addLinter("no.capitals", linter(

  ## Identify lines containing capital letters -- either by name or by index
  apply = function(content, ...) {
    grep("[A-Z]", content)
  },

  ## Only use this linter on R files (paths ending with .r or .R)
  takes = function(paths) {
    grep("[rR]$", paths)
  },

  # Use the default message constructor
  message = function(content, lines, ...) {
    makeLinterMessage("Capital letters found on the following lines", content, lines)
  },

  # Give a suggested prescription
  suggest = "Do not use capital letters in these documents."
))

```

listAccountEnvVars	<i>Maintain environment variables across multiple applications</i>
--------------------	--

Description

- `listAccountEnvVars()` lists the environment variables used by every application published to the specified account.
- `updateAccountEnvVars()` updates the specified environment variables with their current values for every app that uses them.

Secure environment variable are currently only supported by Posit Connect so other server types will generate an error.

Supported servers: Posit Connect servers

Usage

```
listAccountEnvVars(server = NULL, account = NULL)
```

```
updateAccountEnvVars(envVars, server = NULL, account = NULL)
```

Arguments

`account, server` Uniquely identify a remote server with either your user account, the server name, or both. If neither are supplied, and there are multiple options, you'll be prompted to pick one.
 Use `accounts()` to see the full list of available options.

`envVars` Names of environment variables to update. Their values will be automatically retrieved from the current process.

If you specify multiple environment variables, any application that uses any of them will be updated with all of them.

Value

`listAccountEnvVars()` returns a data frame with one row for each application. It has variables `id`, `guid`, `name`, and `envVars`. `envVars` is a list-column.

<code>listDeploymentFiles</code>	<i>Gather files to be bundled with an app</i>
----------------------------------	---

Description

Given an app directory, and optional `appFiles` and `appFileManifest` arguments, returns vector of paths to bundle in the app. (Note that documents follow a different strategy; see [deployDoc\(\)](#) for details.)

When neither `appFiles` nor `appFileManifest` is supplied, `listDeploymentFiles()` will include all files under `appDir`, apart from the following:

- Certain files and folders that don't need to be bundled, such as version control directories, internal config files, and RStudio state, are automatically excluded.
- You can exclude additional files by listing them in a `.rscignore` file. This file must have one file or directory per line (with path relative to the current directory). It doesn't support wildcards, or ignoring files in subdirectories.

`listDeploymentFiles()` will throw an error if the total file size exceeds the maximum bundle size (as controlled by option `rsconnect.max.bundle.size`), or the number of files exceeds the maximum file limit (as controlled by option `rsconnect.max.bundle.files`). This prevents you from accidentally bundling a very large directory (i.e. your home directory).

Supported servers: All servers

Usage

```
listDeploymentFiles(
  appDir,
  appFiles = NULL,
  appFileManifest = NULL,
  error_call = caller_env()
)
```

Arguments

- `appDir` A directory containing an application (e.g. a Shiny app or plumber API). Defaults to the current directory.
- `appFiles`, `appFileManifest` Use `appFiles` to specify a character vector of files to bundle in the app or `appFileManifest` to provide a path to a file containing a list of such files. If neither are supplied, will bundle all files in `appDir`, apart from standard exclusions and files listed in a `.rscignore` file. See [listDeploymentFiles\(\)](#) for more details.
- `error_call` The call or environment for error reporting; expert use only.

Value

Character of paths to bundle, relative to `appDir`.

<code>makeLinterMessage</code>	<i>Construct a Linter Message</i>
--------------------------------	-----------------------------------

Description

Pretty-prints a linter message. Primarily used as a helper for constructing linter messages with [linter\(\)](#).

Supported servers: All servers

Usage

```
makeLinterMessage(header, content, lines)
```

Arguments

- `header` A header message describing the linter.
- `content` The content of the file that was linted.
- `lines` The line numbers from content that contain lint.

migrateToConnectCloud *Migrate a deployment record to Posit Connect Cloud*

Description

Rewrites a local deployment record to point at an existing Posit Connect Cloud content item so that subsequent `deployApp()` calls (including the RStudio IDE Publish button) route to Connect Cloud instead of the original server. The target content must already exist in Connect Cloud — this function updates only the local `.dcf` file on disk.

Usage

```
migrateToConnectCloud(
  appPath = ".",
  contentId,
  cloudAccount = NULL,
  appName = NULL,
  account = NULL,
  server = NULL
)
```

Arguments

<code>appPath</code>	Path to the content directory. Defaults to the current working directory.
<code>contentId</code>	The Connect Cloud content ID. Found in the content URL: <code>https://connect.posit.cloud/{account}</code>
<code>cloudAccount</code>	Local name of the Connect Cloud account to write the new record under. When <code>NULL</code> and exactly one Connect Cloud account is registered, it is used automatically.
<code>appName, account, server</code>	Filters to disambiguate the source deployment record when <code>appPath</code> has records for multiple deployments. When no source record exists, <code>appName</code> names the reconstructed record; if omitted, the name is derived from the content title.

Details

The source deployment record is optional. When `appPath` has no local record (for example, the `rsconnect/` directory was never checked in or has been lost), the Connect Cloud record is reconstructed from `contentId` alone. In that case the record name is taken from `appName`, or derived from the content's title when `appName` is not supplied.

Supported servers: all (source) -> Posit Connect Cloud (target)

Value

The path to the new deployment record file, invisibly.

purgeApp	<i>Purge an Application</i>
----------	-----------------------------

Description

Purge a currently archived ShinyApps application.

Supported servers: ShinyApps servers

Usage

```
purgeApp(appName, account = NULL, server = NULL, quiet = FALSE)
```

Arguments

appName	Name of application to purge
account	Account name. If a single account is registered on the system then this parameter can be omitted.
server	Server name. Required only if you use the same account name on multiple servers (see servers())
quiet	Request that no status information be printed to the console during the termination.

Note

This function only works for ShinyApps servers.

See Also

[applications\(\)](#), [deployApp\(\)](#), and [restartApp\(\)](#)

Examples

```
## Not run:  
  
# purge an application  
purgeApp("myapp")  
  
## End(Not run)
```

removeAuthorizedUser *Remove authorized user from an application*

Description

Remove authorized user from an application

Supported servers: ShinyApps, Posit Connect Cloud

Usage

```
removeAuthorizedUser(
  user,
  appDir = getwd(),
  appName = NULL,
  contentId = NULL,
  account = NULL,
  server = NULL
)
```

Arguments

user	The user to remove. Can be id or email address.
appDir	Directory containing application. Defaults to current working directory.
appName	Name of application.
contentId	On Posit Connect Cloud, the content ID to manage, taken from the content URL (https://connect.posit.cloud/{account}/content/{contentId}). When supplied, appDir and appName are ignored and no local deployment record is required. Not supported on shinyapps.io.
account, server	Uniquely identify a remote server with either your user account, the server name, or both. If neither are supplied, and there are multiple options, you'll be prompted to pick one. Use accounts() to see the full list of available options.

Note

This function works for ShinyApps and Posit Connect Cloud.

On Posit Connect Cloud, the content is resolved from the local deployment record under appDir, which defaults to the working directory. Pass appDir to point at the project directory that contains the rsconnect/ deployment record. appName selects among multiple records in the same directory. Alternatively, pass contentId to target the content directly, without a local deployment record.

See Also

[addAuthorizedUser\(\)](#) and [showUsers\(\)](#)

resendInvitation	<i>Resend invitation for invited users of an application</i>
------------------	--

Description

Resend invitation for invited users of an application

Supported servers: ShinyApps, Posit Connect Cloud

Usage

```
resendInvitation(
  invite,
  regenerate = FALSE,
  appDir = getwd(),
  appName = NULL,
  contentId = NULL,
  account = NULL,
  server = NULL
)
```

Arguments

invite	The invitation to resend. Can be id or email address.
regenerate	Regenerate the invite code. Can be helpful is the invitation has expired.
appDir	Directory containing application. Defaults to current working directory.
appName	Name of application.
contentId	On Posit Connect Cloud, the content ID to manage, taken from the content URL (https://connect.posit.cloud/{account}/content/{contentId}). When supplied, appDir and appName are ignored and no local deployment record is required. Not supported on shinyapps.io.
account, server	Uniquely identify a remote server with either your user account, the server name, or both. If neither are supplied, and there are multiple options, you'll be prompted to pick one. Use accounts() to see the full list of available options.

Note

This function works for ShinyApps and Posit Connect Cloud. The invitation can be selected by id or email address. On Posit Connect Cloud, the regenerate argument has no effect.

On Posit Connect Cloud, the content is resolved from the local deployment record under appDir, which defaults to the working directory. Pass appDir to point at the project directory that contains the rsconnect/ deployment record. appName selects among multiple records in the same directory. Alternatively, pass contentId to target the content directly, without a local deployment record.

See Also[showInvited\(\)](#)

`restartApp`*Restart an Application*

Description

Restart an application currently running on a remote server.

Supported servers: ShinyApps servers

Usage

```
restartApp(appName, account = NULL, server = NULL, quiet = FALSE)
```

Arguments

<code>appName</code>	Name of application to restart
<code>account</code>	Account name. If a single account is registered on the system then this parameter can be omitted.
<code>server</code>	Server name. Required only if you use the same account name on multiple servers (see servers())
<code>quiet</code>	Request that no status information be printed to the console during the operation.

Note

This function works only for ShinyApps servers.

See Also

[applications\(\)](#), [deployApp\(\)](#), and [terminateApp\(\)](#)

Examples

```
## Not run:  
  
# restart an application  
restartApp("myapp")  
  
## End(Not run)
```

rpubsUpload*Upload a file to RPubs*

Description

This function publishes a file to rpubs.com. If the upload succeeds a list that includes an id and continueUrl is returned. A browser should be opened to the continueUrl to complete publishing of the document. If an error occurs then a diagnostic message is returned in the error element of the list.

Supported servers: RPubs servers

Usage

```
rpubsUpload(title, contentFile, originalDoc, id = NULL, properties = list())
```

Arguments

title	The title of the document.
contentFile	The path to the content file to upload.
originalDoc	The document that was rendered to produce the contentFile. May be NULL if the document is not known.
id	If this upload is an update of an existing document then the id parameter should specify the document id to update. Note that the id is provided as an element of the list returned by successful calls to rpubsUpload.
properties	A named list containing additional document properties (RPubs doesn't currently expect any additional properties, this parameter is reserved for future use).

Value

A named list. If the upload was successful then the list contains a id element that can be used to subsequently update the document as well as a continueUrl element that provides a URL that a browser should be opened to in order to complete publishing of the document. If the upload fails then the list contains an error element which contains an explanation of the error that occurred.

Examples

```
## Not run:
# upload a document
result <- rpubsUpload("My document title", "Document.html")
if (!is.null(result$continueUrl))
  browseURL(result$continueUrl)
else
  stop(result$error)

# update the same document with a new title
updateResult <- rpubsUpload("My updated title", "Document.html",
  id = result$id)
```

```
## End(Not run)
```

rsconnectOptions

Package Options

Description

The rsconnect package supports several options that control the method used for http communications, the printing of diagnostic information for http requests, and the launching of an external browser after deployment.

Details

Supported global options include:

- `rsconnect.ca.bundle`: Path to a custom bundle of Certificate Authority root certificates to use when connecting to servers via SSL. This option can also be specified in the environment variable `RSCONNECT_CA_BUNDLE`. Leave undefined to use your system's default certificate store.
- `rsconnect.check.certificate`: Whether to check the SSL certificate when connecting to a remote host; defaults to `TRUE`. Setting to `FALSE` is insecure, but will allow you to connect to hosts using invalid certificates as a last resort.
- `rsconnect.http.trace`: When `TRUE`, trace http calls (prints the method, path, and total milliseconds for each http request).
- `rsconnect.http.trace.json`: When `TRUE`, trace JSON content (shows JSON payloads sent to and received from the server).
- `rsconnect.http.verbose`: When `TRUE`, print verbose output for http connections (useful only for debugging SSL certificate or http connection problems).
- `rsconnect.tar`: By default, rsconnect uses R's internal tar implementation to compress content bundles. This may cause invalid bundles in some environments. In those cases, use this option to specify a path to an alternate tar executable. This option can also be specified in the environment variable `RSCONNECT_TAR`. Leave undefined to use the default tar implementation.
- `rsconnect.libcurl.options`: A named list of additional cURL options to use when making HTTP requests. Run `curl::curl_options()` to see available options.
- `rsconnect.error.trace`: When `TRUE`, print detailed stack traces for errors occurring during deployment.
- `rsconnect.launch.browser`: When `TRUE`, automatically launch a browser to view applications after they are deployed.
- `rsconnect.locale.cache`: When `FALSE`, disable the detected locale cache (Windows only).
- `rsconnect.locale`: Override the detected locale.
- `rsconnect.max.bundle.size`: The maximum size, in bytes, for deployed content. If not set, defaults to 3 GB.

- `rsconnect.max.bundle.files`: The maximum number of files to deploy. If not set, defaults to 10,000.
- `rsconnect.force.update.apps`: When TRUE, bypasses the prompt to confirm whether you wish to update previously-deployed content.
- `rsconnect.pre.deploy`: A function to run prior to deploying content; it receives as an argument the directory containing the content about to be deployed.
- `rsconnect.post.deploy`: A function to run after successfully deploying content; it receives as an argument the directory containing the content about to be deployed.
- `rsconnect.python.enabled`: When TRUE, use the python executable specified by the `RETICULATE_PYTHON` environment variable and add a python section to the deployment manifest. By default, python is enabled when deploying to Posit Connect and disabled when deploying to shinyapps.io.
- `rsconnect.check_updates`: When TRUE (the default), rsconnect looks in your configured repositories for a newer version of the package and tells you if one is available. Set to FALSE to turn this check off. You can also set the environment variable `RSCONNECT_CHECK_UPDATES`, which takes precedence over the option.
- `rsconnect.update_check_timeout`: The maximum time, in seconds, to wait for each repository request during the update check. Defaults to 2. This limit keeps the check from delaying `library(rsconnect)` or error reporting.
- `rsconnect.update_check_interval`: How long, in seconds, to cache the result of the update check. Defaults to 86400 (one day).

When deploying content from the RStudio IDE, the rsconnect package's deployment methods are executed in a vanilla R session that doesn't execute startup scripts. This can make it challenging to ensure options are set properly prior to push-button deployment, so the rsconnect package has a parallel set of "startup" scripts it runs prior to deploying. The following are run in order, if they exist, prior to deployment:

- `$R_HOME/etc/rsconnect.site`: Like `Rprofile.site`; for site-wide pre-flight and options.
- `~/rsconnect_profile`: Like `.Rprofile`; for user-specific content.
- `$PROJECT/rsconnect_profile`: Like `.Rprofile` for projects; `$PROJECT` here refers to the root directory of the content being deployed.

Note that, unlike `.Rprofile`, these files don't replace each other; *all three* will be run if they exist.

Examples

```
## Not run:

# trace http requests
options(rsconnect.http.trace = TRUE)

# print verbose output for http requests
options(rsconnect.http.verbose = TRUE)

# print JSON content
options(rsconnect.http.trace.json = TRUE)

# don't automatically launch a browser after deployment
options(rsconnect.launch.browser = FALSE)
```

```
## End(Not run)
```

servers	<i>Server metadata</i>
---------	------------------------

Description

`servers()` lists all known servers; `serverInfo()` gets metadata about a specific server. Cloud server `shinyapps.io` is always automatically registered and available.

Supported servers: All servers

Usage

```
servers(local = FALSE)
```

```
serverInfo(name = NULL)
```

Arguments

<code>local</code>	Return only local servers? (i.e. not automatically registered cloud servers)
<code>name</code>	Server name. If omitted, you'll be prompted to pick a server.

Value

`servers()` returns a data frame with registered server names and URLs. `serverInfo()` returns a list with details for a particular server.

Examples

```
# List all registered servers
servers()

# Get information about a server
serverInfo("shinyapps.io")
```

setAccountInfo	<i>Register account on shinyapps.io</i>
----------------	---

Description

Configure a ShinyApps account for publishing from this system.

Supported servers: ShinyApps servers

Usage

```
setAccountInfo(name, token, secret, server = "shinyapps.io")
```

Arguments

name	Name of account to save or remove
token	User token for the account
secret	User secret for the account
server	Server to associate account with.

See Also

Other Account functions: [accounts\(\)](#), [connectApiUser\(\)](#), [connectCloudClientCredentials\(\)](#), [connectCloudUser\(\)](#)

Examples

```
## Not run:

# register an account
setAccountInfo("user", "token", "secret")

# remove the same account
removeAccount("user")

## End(Not run)
```

setProperty	<i>Set Application property</i>
-------------	---------------------------------

Description

Set a property on currently deployed ShinyApps application.

Supported servers: ShinyApps servers

Usage

```
setProperty(  
  propertyName,  
  propertyValue,  
  appPath = getwd(),  
  appName = NULL,  
  account = NULL,  
  server = NULL,  
  force = FALSE  
)
```

Arguments

propertyName	Name of property
propertyValue	Property value
appPath	Directory or file that was deployed. Defaults to current working directory.
appName	Name of application
account, server	Uniquely identify a remote server with either your user account, the server name, or both. If neither are supplied, and there are multiple options, you'll be prompted to pick one. Use accounts() to see the full list of available options.
force	Forcibly set the property

Note

This function only works for ShinyApps servers.

Examples

```
## Not run:  
  
# set instance size for an application  
setProperty("application.instances.count", 1)  
  
# disable application package cache  
setProperty("application.package.cache", FALSE)
```

```
## End(Not run)
```

showInvited	<i>List invited users for an application</i>
-------------	--

Description

List invited users for an application

Supported servers: ShinyApps, Posit Connect Cloud

Usage

```
showInvited(
  appDir = getwd(),
  appName = NULL,
  contentId = NULL,
  account = NULL,
  server = NULL
)
```

Arguments

appDir	Directory containing application. Defaults to current working directory.
appName	Name of application.
contentId	On Posit Connect Cloud, the content ID to manage, taken from the content URL (https://connect.posit.cloud/{account}/content/{contentId}). When supplied, appDir and appName are ignored and no local deployment record is required. Not supported on shinyapps.io.
account, server	Uniquely identify a remote server with either your user account, the server name, or both. If neither are supplied, and there are multiple options, you'll be prompted to pick one. Use accounts() to see the full list of available options.

Note

This function works for ShinyApps and Posit Connect Cloud. On Posit Connect Cloud, the link column is always NA because the accept link is only emailed to the recipient and is never returned by the API.

On Posit Connect Cloud, the content is resolved from the local deployment record under appDir, which defaults to the working directory. Pass appDir to point at the project directory that contains the rsconnect/ deployment record. appName selects among multiple records in the same directory. Alternatively, pass contentId to target the content directly, without a local deployment record.

See Also

[addAuthorizedUser\(\)](#) and [showUsers\(\)](#)

showLogs

*Application Logs***Description**

These functions provide access to the logs for deployed ShinyApps applications:

- showLogs() displays the logs.
- getLogs() returns the logged lines.

Supported servers: ShinyApps servers

Usage

```
showLogs(
  appPath = getwd(),
  appFile = NULL,
  appName = NULL,
  account = NULL,
  server = NULL,
  entries = 50,
  streaming = FALSE
)
```

```
getLogs(
  appPath = getwd(),
  appFile = NULL,
  appName = NULL,
  account = NULL,
  server = NULL,
  entries = 50
)
```

Arguments

appPath	The path to the directory or file that was deployed.
appFile	The path to the R source file that contains the application (for single file applications).
appName	The name of the application to show logs for. May be omitted if only one application deployment was made from appPath.
account	The account under which the application was deployed. May be omitted if only one account is registered on the system.
server	Server name. Required only if you use the same account name on multiple servers.
entries	The number of log entries to show. Defaults to 50 entries.

streaming Deprecated. Streaming logs is not currently supported as the ShinyApps.io backend no longer supports this feature. If TRUE, an error will be thrown. Defaults to FALSE.

Value

getLogs() returns a data frame containing the logged lines.

Note

These functions only work for applications deployed to ShinyApps.io.

showMetrics	<i>Show Application Metrics</i>
-------------	---------------------------------

Description

Show application metrics of a currently deployed application.

Supported servers: ShinyApps servers

Usage

```
showMetrics(
  metricSeries,
  metricNames,
  appDir = getwd(),
  appName = NULL,
  account = NULL,
  server = "shinyapps.io",
  from = NULL,
  until = NULL,
  interval = NULL
)
```

Arguments

metricSeries	Metric series to query. Refer to the shinyapps.io documentation for available series.
metricNames	Metric names in the series to query. Refer to the shinyapps.io documentation for available metrics.
appDir	A directory containing an application (e.g. a Shiny app or plumber API). Defaults to the current directory.
appName	Application name, a string consisting of letters, numbers, _ and -. The application name is used to identify applications on a server, so must be unique. If not specified, the name is automatically derived on the first deployment from appDir for applications and websites, and from appPrimaryDoc for documents. On subsequent deploys, the previously stored value is used.

account, server	Uniquely identify a remote server with either your user account, the server name, or both. If neither are supplied, and there are multiple options, you'll be prompted to pick one. Use accounts() to see the full list of available options.
from	Date range starting timestamp (Unix timestamp or relative time delta such as "2d" or "3w").
until	Date range ending timestamp (Unix timestamp or relative time delta such as "2d" or "3w").
interval	Summarization interval. Data points at intervals less than this will be grouped. (Relative time delta e.g. "120s" or "1h" or "30d").

showProperties	<i>Show Application property</i>
----------------	----------------------------------

Description

Show properties of an application deployed to ShinyApps.

Supported servers: ShinyApps servers

Usage

```
showProperties(  
  appPath = getwd(),  
  appName = NULL,  
  account = NULL,  
  server = NULL  
)
```

Arguments

appPath	Directory or file that was deployed. Defaults to current working directory.
appName	Name of application
account, server	Uniquely identify a remote server with either your user account, the server name, or both. If neither are supplied, and there are multiple options, you'll be prompted to pick one. Use accounts() to see the full list of available options.

Note

This function works only for ShinyApps servers.

showUsage	<i>Show Application Usage</i>
-----------	-------------------------------

Description

Show application usage of a currently deployed application

Supported servers: ShinyApps servers

Usage

```
showUsage(  
  appDir = getwd(),  
  appName = NULL,  
  account = NULL,  
  server = NULL,  
  usageType = "hours",  
  from = NULL,  
  until = NULL,  
  interval = NULL  
)
```

Arguments

appDir	Directory containing application. Defaults to current working directory.
appName	Name of application
account, server	Uniquely identify a remote server with either your user account, the server name, or both. If neither are supplied, and there are multiple options, you'll be prompted to pick one. Use accounts() to see the full list of available options.
usageType	Use metric to retrieve (for example: "hours")
from	Date range starting timestamp (Unix timestamp or relative time delta such as "2d" or "3w").
until	Date range ending timestamp (Unix timestamp or relative time delta such as "2d" or "3w").
interval	Summarization interval. Data points at intervals less than this will be grouped. (Relative time delta e.g. "120s" or "1h" or "30d").

Note

This function only works for ShinyApps servers.

showUsers	<i>List authorized users for an application</i>
-----------	---

Description

List authorized users for an application

Supported servers: ShinyApps, Posit Connect Cloud

Usage

```
showUsers(  
  appDir = getwd(),  
  appName = NULL,  
  contentId = NULL,  
  account = NULL,  
  server = NULL  
)
```

Arguments

appDir	Directory containing application. Defaults to current working directory.
appName	Name of application.
contentId	On Posit Connect Cloud, the content ID to manage, taken from the content URL (https://connect.posit.cloud/{account}/content/{contentId}). When supplied, appDir and appName are ignored and no local deployment record is required. Not supported on shinyapps.io.
account, server	Uniquely identify a remote server with either your user account, the server name, or both. If neither are supplied, and there are multiple options, you'll be prompted to pick one. Use accounts() to see the full list of available options.

Value

A data frame with one row per authorized user. Columns always present: id, email, account. The account column is populated on shinyapps.io only and is NA on Posit Connect Cloud. On Posit Connect Cloud the data frame additionally includes display_name and role (e.g. "viewer" or "collaborator") from the API response.

Note

This function works for ShinyApps and Posit Connect Cloud.

On Posit Connect Cloud, the content is resolved from the local deployment record under appDir, which defaults to the working directory. Pass appDir to point at the project directory that contains the rsconnect/ deployment record. appName selects among multiple records in the same directory. Alternatively, pass contentId to target the content directly, without a local deployment record.

See Also

[addAuthorizedUser\(\)](#) and [showInvited\(\)](#)

syncAppMetadata	<i>Update deployment records</i>
-----------------	----------------------------------

Description

Update the deployment records for applications published to Posit Connect. This updates application title and URL, and deletes records for deployments where the application has been deleted on the server.

Supported servers: Posit Connect servers

Usage

```
syncAppMetadata(appPath = ".")
```

Arguments

appPath	The path to the directory or file that was deployed.
---------	--

taskLog	<i>Show task log</i>
---------	----------------------

Description

Writes the task log for the given task

Supported servers: ShinyApps servers

Usage

```
taskLog(taskId, account = NULL, server = NULL, output = NULL)
```

Arguments

taskId	Task Id
account, server	Uniquely identify a remote server with either your user account, the server name, or both. If neither are supplied, and there are multiple options, you'll be prompted to pick one. Use accounts() to see the full list of available options.
output	Where to write output. Valid values are NULL or stderr

Note

This function works only with shinyapps.io.

See Also

[tasks\(\)](#)

Examples

```
## Not run:

# write task log to stdout
taskLog(12345)

# write task log to stderr
taskLog(12345, output="stderr")

## End(Not run)
```

tasks	<i>List Tasks</i>
-------	-------------------

Description

List Tasks
Supported servers: ShinyApps servers

Usage

```
tasks(account = NULL, server = NULL)
```

Arguments

account, server Uniquely identify a remote server with either your user account, the server name, or both. If neither are supplied, and there are multiple options, you'll be prompted to pick one.
Use [accounts\(\)](#) to see the full list of available options.

Value

Returns a data frame with the following columns:

id	Task id
action	Task action
status	Current task status
created_time	Task creation time
finished_time	Task finished time

Note

This function works only with shinyapps.io.

See Also[taskLog\(\)](#)**Examples**

```
## Not run:

# list tasks for the default account
tasks()

## End(Not run)
```

terminateApp*Terminate an Application*

Description

Terminate and archive a currently deployed ShinyApps application.

Supported servers: ShinyApps servers

Usage

```
terminateApp(appName, account = NULL, server = NULL, quiet = FALSE)
```

Arguments

appName	Name of application to terminate
account	Account name. If a single account is registered on the system then this parameter can be omitted.
server	Server name. Required only if you use the same account name on multiple servers (see servers())
quiet	Request that no status information be printed to the console during the termination.

Note

This function only works for ShinyApps servers.

See Also

[applications\(\)](#), [deployApp\(\)](#), and [restartApp\(\)](#)

Examples

```
## Not run:

# terminate an application
terminateApp("myapp")

## End(Not run)
```

unsetProperty	<i>Unset Application property</i>
---------------	-----------------------------------

Description

Unset a property on currently deployed ShinyApps application (restoring to its default value)

Supported servers: ShinyApps servers

Usage

```
unsetProperty(
  propertyName,
  appPath = getwd(),
  appName = NULL,
  account = NULL,
  server = NULL,
  force = FALSE
)
```

Arguments

propertyName	Name of property
appPath	Directory or file that was deployed. Defaults to current working directory.
appName	Name of application
account, server	Uniquely identify a remote server with either your user account, the server name, or both. If neither are supplied, and there are multiple options, you'll be prompted to pick one. Use accounts() to see the full list of available options.
force	Forcibly unset the property

Note

This function only works for ShinyApps servers.

Examples

```
## Not run:

# unset application package cache property to revert to default
unsetProperty("application.package.cache")

## End(Not run)
```

writeManifest	Create a manifest.json
---------------	------------------------

Description

Use writeManifest() to generate a manifest.json. Among other things, you can commit this file to git to activate **Git-Backed content** for Posit Connect.

manifest.json contains a list of all files in the app along with their dependencies, so you will need to re-run writeManifest() when either of these change.

Supported servers: All servers

Usage

```
writeManifest(
  appDir = getwd(),
  appFiles = NULL,
  appFileManifest = NULL,
  appPrimaryDoc = NULL,
  appMode = NULL,
  contentCategory = NULL,
  python = NULL,
  forceGeneratePythonEnvironment = FALSE,
  quarto = NA,
  image = NULL,
  envManagement = NULL,
  envManagementR = NULL,
  envManagementPy = NULL,
  envManagementNodejs = NULL,
  packageRepositoryResolutionR = NULL,
  dependencyResolution = c("strict", "library"),
  verbose = FALSE,
  quiet = FALSE
)
```

Arguments

appDir	A directory containing an application (e.g. a Shiny app or plumber API). Defaults to the current directory.
appFiles, appFileManifest	Use appFiles to specify a character vector of files to bundle in the app or appFileManifest to provide a path to a file containing a list of such files. If neither are supplied, will bundle all files in appDir, apart from standard exclusions and files listed in a .rscignore file. See listDeploymentFiles() for more details.
appPrimaryDoc	If the application contains more than one document, this parameter indicates the primary one, as a path relative to appDir. Can be NULL, in which case the primary document is inferred from the contents being deployed.
appMode	Optional; the type of content being deployed. Provide this option when the inferred type of content is incorrect. This can happen, for example, when static HTML content includes a downloadable Shiny application app.R. Accepted values include "shiny", "api", "rmd-static", "rmd-shiny", "quarto-static", "quarto-shiny", "nodejs", and "static". The Posit Connect API Reference contains a full set of available values. Not all servers support all types of content.
contentCategory	Set this to "site" if you'd deploy with deploySite() ; otherwise leave as is.
python	Full path to a python binary for use by reticulate. Required if reticulate is a dependency of the app being deployed. If python = NULL, and RETICULATE_PYTHON or RETICULATE_PYTHON_FALLBACK is set in the environment, its value will be used. The specified python binary will be invoked to determine its version and to list the python packages installed in the environment.
forceGeneratePythonEnvironment	Optional. If an existing requirements.txt file is found, it will be overwritten when this argument is TRUE.
quarto	Should the deployed content be built by quarto? (TRUE, FALSE, or NA). The default, NA, will use quarto if there are .qmd files in the bundle, or if there is a _quarto.yml and .Rmd files. (This option is ignored and quarto will always be used if the metadata contains quarto_version and quarto_engines fields.)
image	Optional. The name of the image to use when building and executing this content. If none is provided, Posit Connect will attempt to choose an image based on the content requirements. You can override the default by setting the environment variable RSCONNECT_IMAGE.
envManagement	Optional. Should Posit Connect install packages for this content? (TRUE, FALSE, or NULL). The default, NULL, will not write any values to the bundle manifest, and Connect will fall back to the application default environment management strategy, or the server default if no application default is defined. (This option is a shorthand flag which overwrites the values of envManagementR, envManagementPy, and envManagementNodejs.)

envManagementR	Optional. Should Posit Connect install R packages for this content? (TRUE, FALSE, or NULL). The default, NULL, will not write any values to the bundle manifest, and Connect will fall back to the application default R environment management strategy, or the server default if no application default is defined. (This option is ignored when envManagement is non-NULL.)
envManagementPy	Optional. Should Posit Connect install Python packages for this content? (TRUE, FALSE, or NULL). The default, NULL, will not write any values to the bundle manifest, and Connect will fall back to the application default Python environment management strategy, or the server default if no application default is defined. (This option is ignored when envManagement is non-NULL.)
envManagementNodejs	Optional. Should Posit Connect install Node.js packages for this content? (TRUE, FALSE, or NULL). The default, NULL, will not write any values to the bundle manifest, and Connect will fall back to the application default Node.js environment management strategy, or the server default if no application default is defined. (This option is ignored when envManagement is non-NULL.)
packageRepositoryResolutionR	Optional. Specifies the package repository resolution strategy for R packages. Must be one of "lax", "strict", "legacy", "lockfile", or NULL. The default, NULL, will not write any values to the bundle manifest and Connect will fall back to the server's package repository resolution strategy.
dependencyResolution	Controls how R package dependencies are resolved. Must be one of "strict" or "library". When "strict", the renv.lock file is used if present and must match the local library. When "library", the lockfile is ignored and dependencies are resolved from the available local libraries instead. This is useful when the lockfile is out of sync with the local library and cannot be updated. Note that the deployed content will reflect the local library, not the lockfile. Defaults to "strict".
verbose	If TRUE, prints detailed progress messages.
quiet	If FALSE, prints progress messages.

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